

an apparatus cabinet containing therein a substrate member and a two-dimensional photoelectric converter unit having a light receiving surface, the light receiving surface comprising a plurality of photoelectric converters formed on said substrate member, said photoelectric converter unit being arranged on a base member, and said cabinet having a deformable top plate located opposite to said light receiving surface of said photoelectric converter unit and said top plate being less rigid than said base member.

2. (Amended) A two-dimensional image pickup apparatus according to claim 1, wherein said top plate can return to an original position after deformation.

3. (Amended) A two-dimensional image pickup apparatus according to claim 1, wherein the magnitude of deformation of said top plate is greater than that of said substrate member.

4. (Amended) A two-dimensional image pickup apparatus according to claim 1, further comprising a shock absorber arranged between said photoelectric converter unit and said cabinet.

5. (Amended) A two-dimensional image pickup apparatus according to claim 4, wherein said shock absorber comprises one or more containers.

As amended.

6. A two-dimensional image pickup apparatus according to claim 5, wherein the containers are air bags.

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7. (Amended) A two-dimensional image pickup apparatus according to claim 5, wherein said photoelectric converters output electric signals and said apparatus further comprises a circuit board for processing the electric signals from said photoelectric converters, said circuit board having electronic parts cooled by a cooling liquid contained in a sealed state at least in the containers held in direct contact with the electronic parts arranged on said circuit board.

8. (Amended) A two-dimensional image pickup apparatus according to claim 1, wherein said top plate is comprised of resin.

9. (Amended) A two-dimensional image pickup apparatus according to claim 8, wherein the resin contains carbon-fiber-reinforced resin.

10. (Amended) A two-dimensional image pickup apparatus according to claim 1, wherein said photoelectric converter unit includes a fluorescent body.

11. (Amended) A two-dimensional image pickup apparatus comprising:
a substrate;
a photoelectric converter unit having a plurality of photoelectric converters formed
on said substrate;
a cabinet containing said photoelectric converter unit; and
a shock absorber disposed between said photoelectric converter unit and said cabinet.

12. (Amended) A two-dimensional image pickup apparatus according to claim
11, wherein said shock absorber comprises one or more containers.

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13. (Amended) A two-dimensional image pickup apparatus according to claim
12, wherein each of the one or more containers contains a gas in a sealed state.

14. (Amended) A two-dimensional image pickup apparatus according to claim
12, wherein the one or more containers are air bags.

15. (Amended) A two-dimensional image pickup apparatus according to claim
11, further comprising:
a circuit board for processing electric signals relating to said photoelectric converters,
said circuit board contained in said cabinet and having electronic parts; and
a cooling device held in contact with the electronic parts of said circuit board .

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16. (Amended) A two-dimensional image pickup apparatus according to claim 15, wherein said cooling device comprises one or more containers containing a cooling liquid therein.

Please add new Claims 17-22 as shown below.

17. (New) A two-dimensional image pickup apparatus according to claim 11, wherein said shock absorber contains a gelled material.

18. (New) A two-dimensional image pickup apparatus according to claim 11, wherein said photoelectric converter unit has a light receiving surface comprised of the plurality of photoelectric converters and said shock absorber entirely covers the light receiving surface of said photoelectric converter unit.

19. (New) A radiation detecting apparatus comprising the two-dimensional image pickup apparatus defined in claims 1-18 and a fluorescent member arranged at a side of the light receiving surface.

20. (New) A radiation detecting apparatus including a two-dimensional image pickup apparatus comprising an apparatus cabinet containing therein (i) a substrate member, and (ii) a two-dimensional photoelectric converter unit having a light receiving surface comprising a plurality of photoelectric converters formed on said substrate member and a fluorescent member arranged at a side of said light receiving surface.

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